

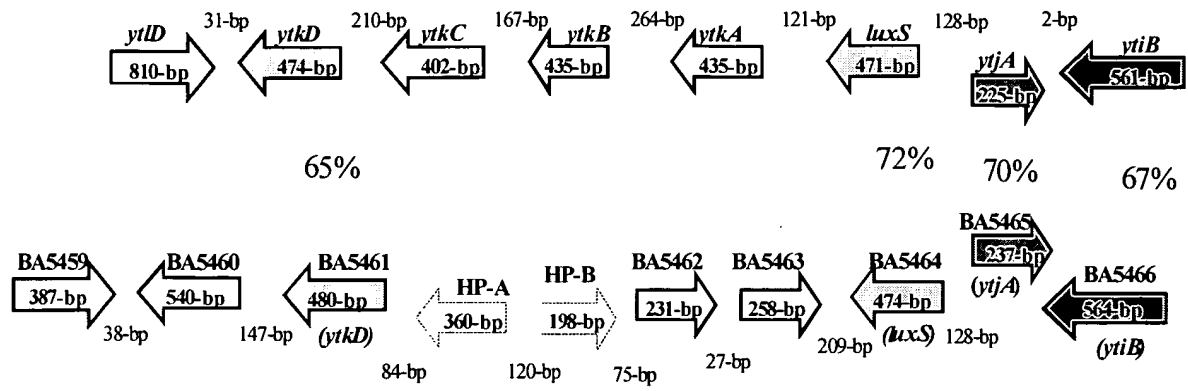
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51  TTATGTAAGA CATTGCGGAG TTCACAATGT AGGTAGTGAC GGTATTGTAA
101 ATAAATTCGA TATTCGTTTT TGCCAACCGA ATAAACAAGC AATGAAACCA
151 GATGTTATTC ATACGTTAGA ACATTTATTA GCATTTAATT TACGTAAATA
201 TATTGATCGT TATCCACATT TTGATATTAT CGATATTTCA CCAATGGGCT
251 GCCAAACAGG ATACTACCTT GTAGTAAGCG GAACACCGAC AGTTCGAGAA
301 ATCATTGATT TATTAGAATT AACATTAAAA GATGCGGTTC AAATTACAGA
351 AATTCCAGCT GCAAATGAAA CACAATGTGG TCAAGCGAAG CTTCACGATT
401 TAGAAGGAGC AAAACGCTTA ATGAACTTCT GGTTAAGCCA AGATAAAGAT
451 GAACTTGAGA AAGTATTTGG ATAA
```

**FIGURE 1**

1	MPSVESFELD HTIVKAPYVR HCGVHNVGSD GIVNKFDIRF	40
41	CQPNKQAMKP DVIHTLEHLL AFNLRKYIDR YPHFDIIDIS	80
81	PMGCQTGYL VVSGTPTVRE IIDLLELTLK DAVQITEIPA	120
121	ANETQCGQAK LHDLEGAKRL MNFWLSQDKD ELEKVFG	157

**FIGURE 2**

*B. subtilis*



*B. anthracis*

**FIGURE 3**

		20	40	60	*	80	*	100	
<i>E. coli</i>	:	----	----	----	----	----	----	----	94
<i>S. typhimurium</i>	:	----	----	----	----	----	----	----	94
<i>Y. pestis</i>	:	----	----	----	----	----	----	----	94
<i>V. cholerae</i>	:	----	----	----	----	----	----	----	94
<i>V. harveyi</i>	:	----	----	----	----	----	----	----	94
<i>H. influenzae</i>	:	----	----	----	----	----	----	----	93
<i>N. meningitidis</i>	:	----	----	----	----	----	----	----	94
<i>C. jejuni</i>	:	----	----	----	----	----	----	----	94
<i>B. anthracis</i>	:	----	----	----	----	----	----	----	95
<i>B. subtilis</i>	:	----	----	----	----	----	----	----	95
<i>B. halodurans</i>	:	----	----	----	----	----	----	----	95
<i>S. aureus</i>	:	----	----	----	----	----	----	----	92
<i>L. monocytogenes</i>	:	----	----	----	----	----	----	----	93
<i>H. pylori</i>	:	----	----	----	----	----	----	----	94
<i>E. faecalis</i>	:	----	----	----	----	----	----	----	89
<i>C. botulinum</i>	:	----	----	----	----	----	----	----	90
<i>S. pyogenes</i>	:	----	----	----	----	----	----	----	93
<i>S. pneumoniae</i>	:	----	----	----	----	----	----	----	93
			*						
		120	140	160		180			
<i>E. coli</i>	:	----	----	----	----	----	----	----	171
<i>S. typhimurium</i>	:	----	----	----	----	----	----	----	171
<i>Y. pestis</i>	:	----	----	----	----	----	----	----	171
<i>V. cholerae</i>	:	----	----	----	----	----	----	----	172
<i>V. harveyi</i>	:	----	----	----	----	----	----	----	172
<i>H. influenzae</i>	:	----	----	----	----	----	----	----	166
<i>N. meningitidis</i>	:	----	----	----	----	----	----	----	168
<i>C. jejuni</i>	:	----	----	----	----	----	----	----	164
<i>B. anthracis</i>	:	----	----	----	----	----	----	----	157
<i>B. subtilis</i>	:	----	----	----	----	----	----	----	157
<i>B. halodurans</i>	:	----	----	----	----	----	----	----	158
<i>S. aureus</i>	:	----	----	----	----	----	----	----	156
<i>L. monocytogenes</i>	:	----	----	----	----	----	----	----	155
<i>H. pylori</i>	:	----	----	----	----	----	----	----	155
<i>E. faecalis</i>	:	----	----	----	----	----	----	----	152
<i>C. botulinum</i>	:	----	----	----	----	----	----	----	171
<i>S. pyogenes</i>	:	----	----	----	----	----	----	----	160
<i>S. pneumoniae</i>	:	----	----	----	----	----	----	----	160

FIGURE 4

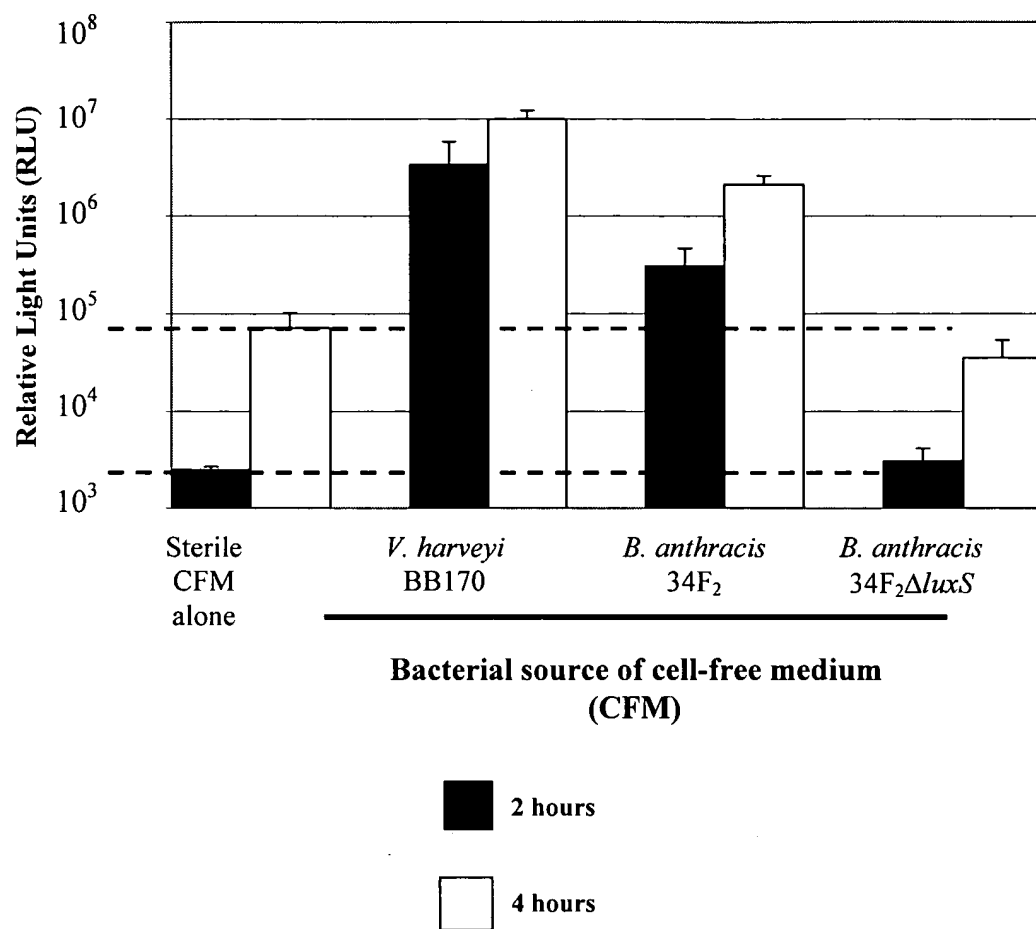


FIGURE 5

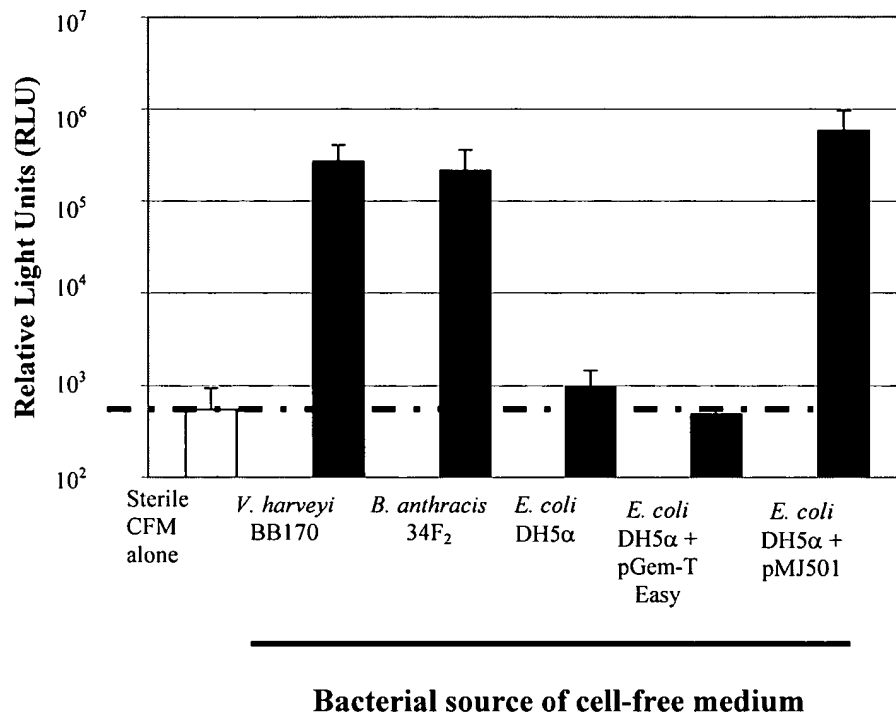


FIGURE 6

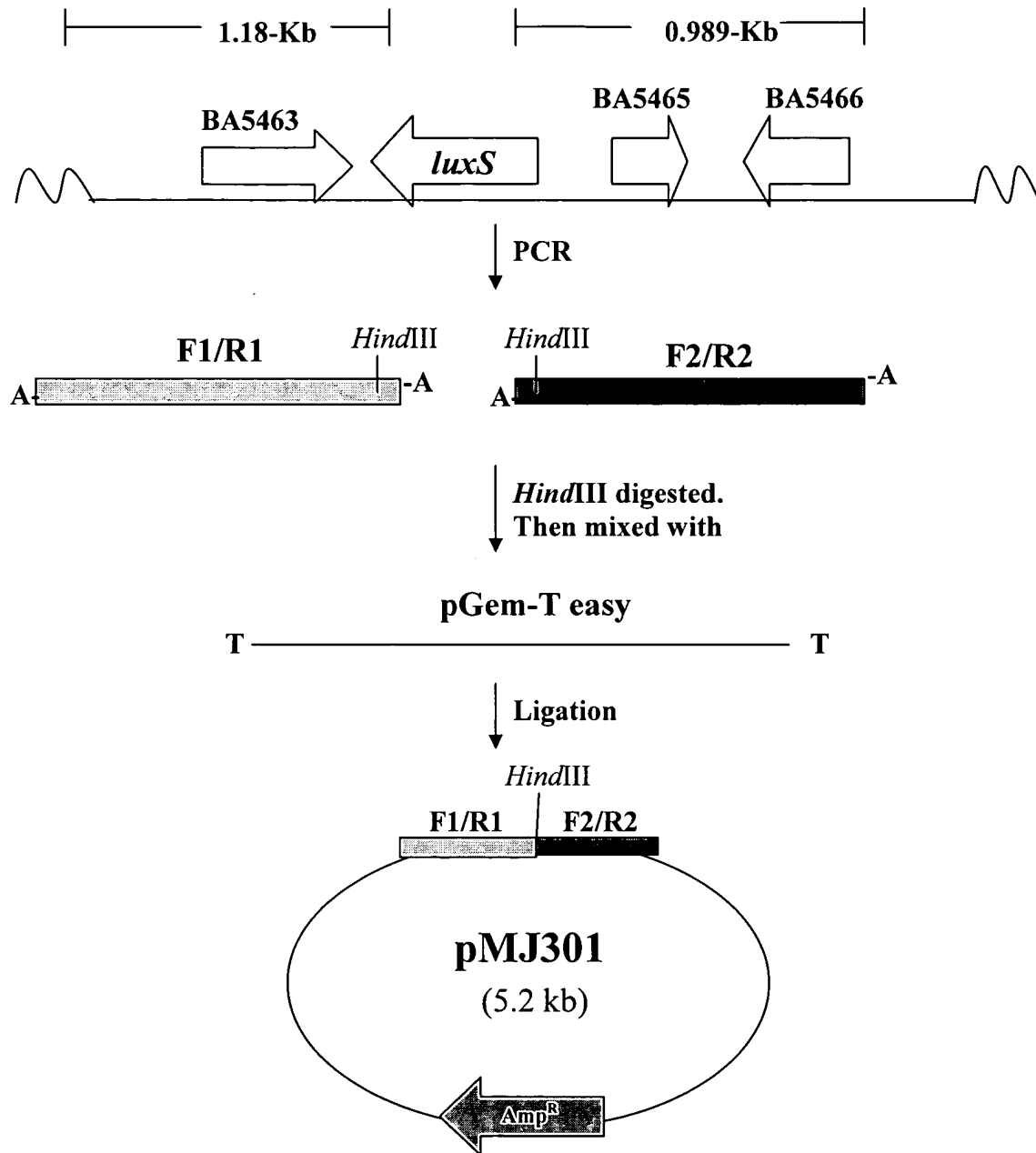


FIGURE 7A

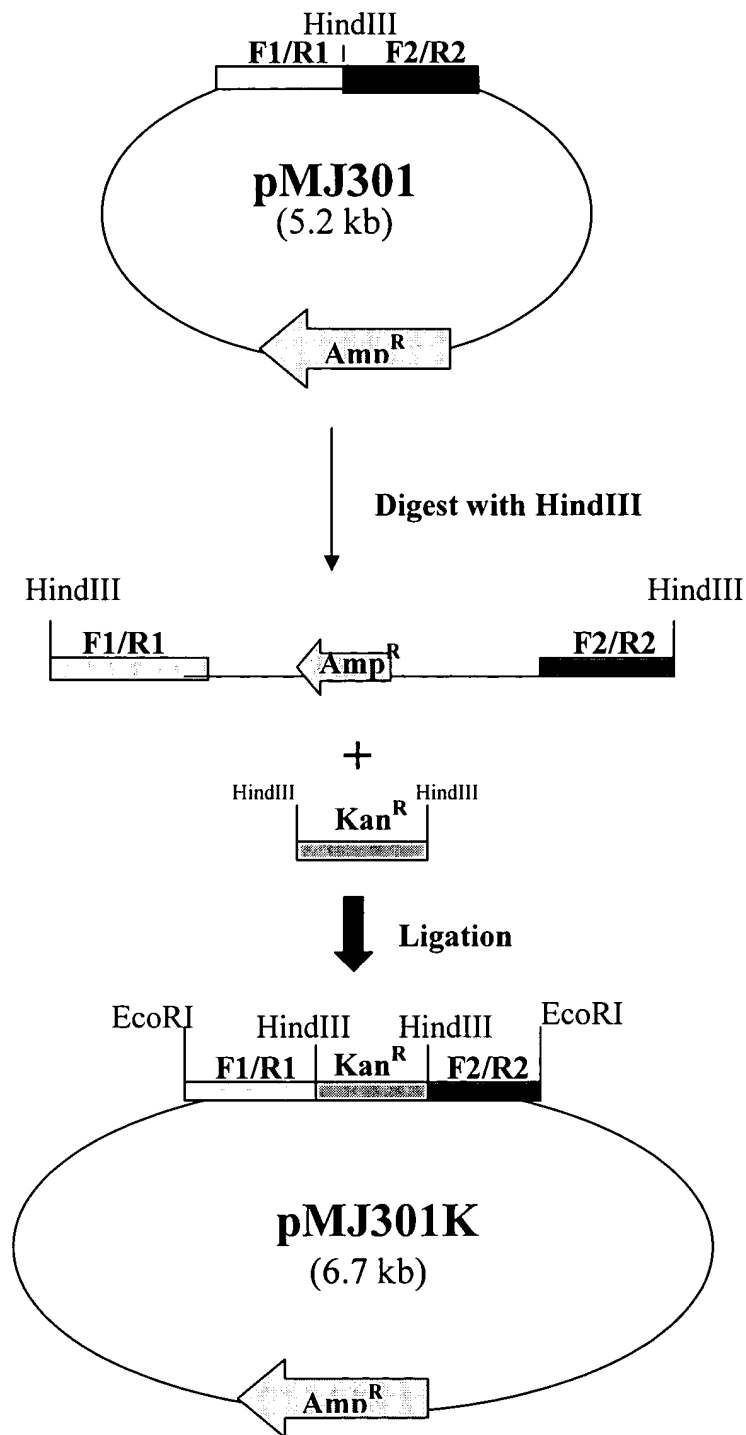


FIGURE 7B



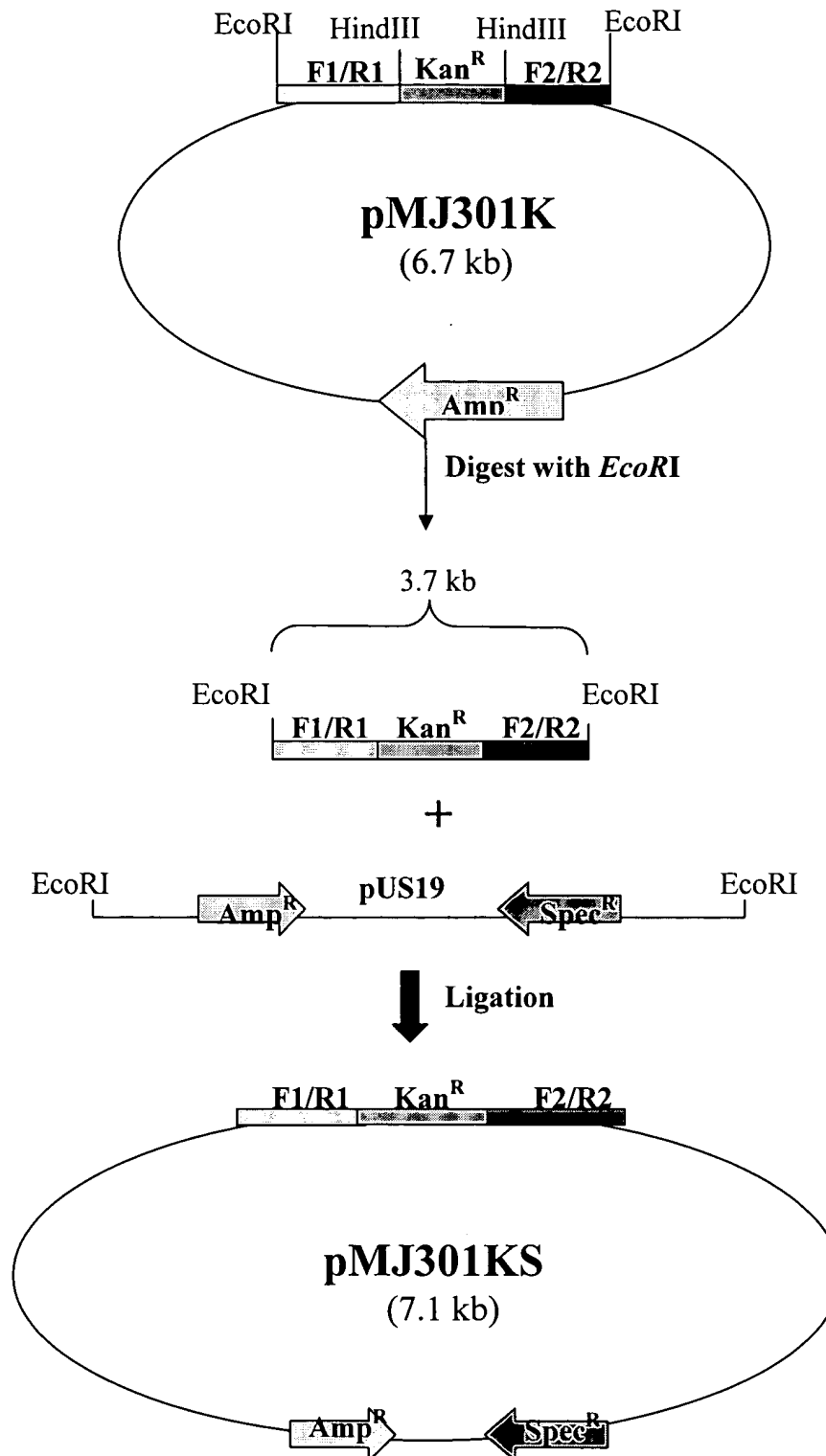
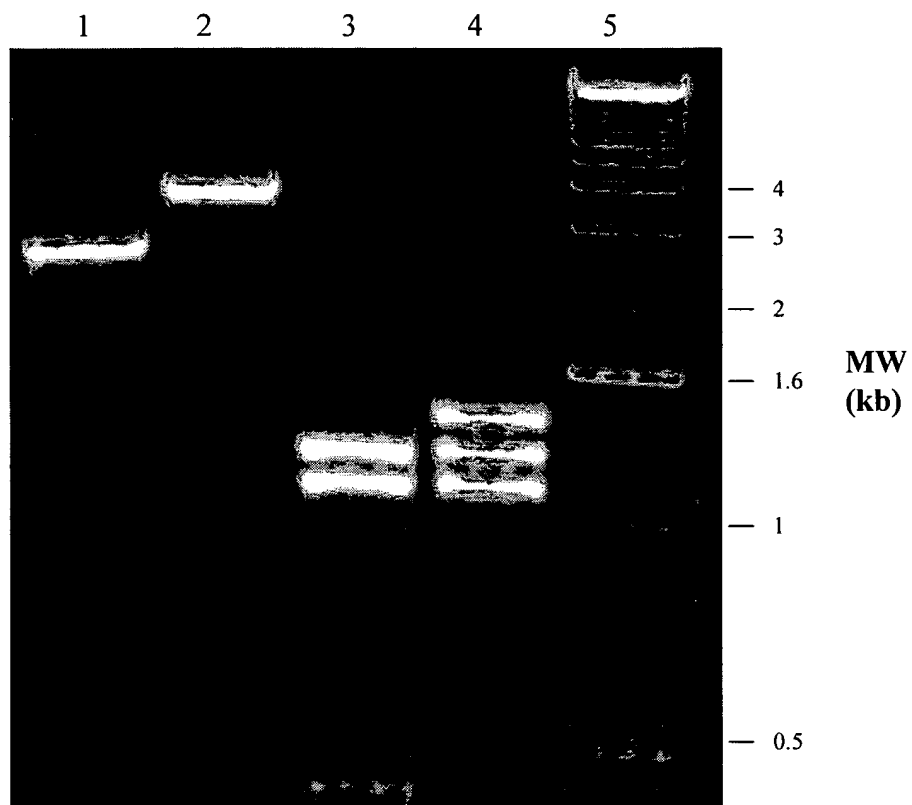


FIGURE 7C



**FIGURE 8**

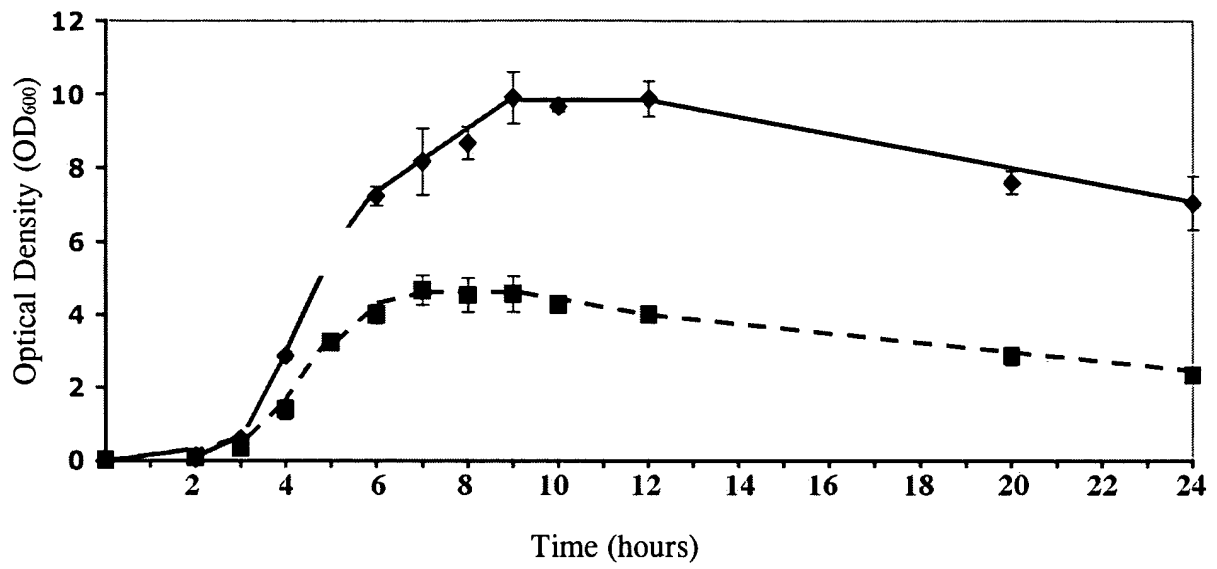


FIGURE 9

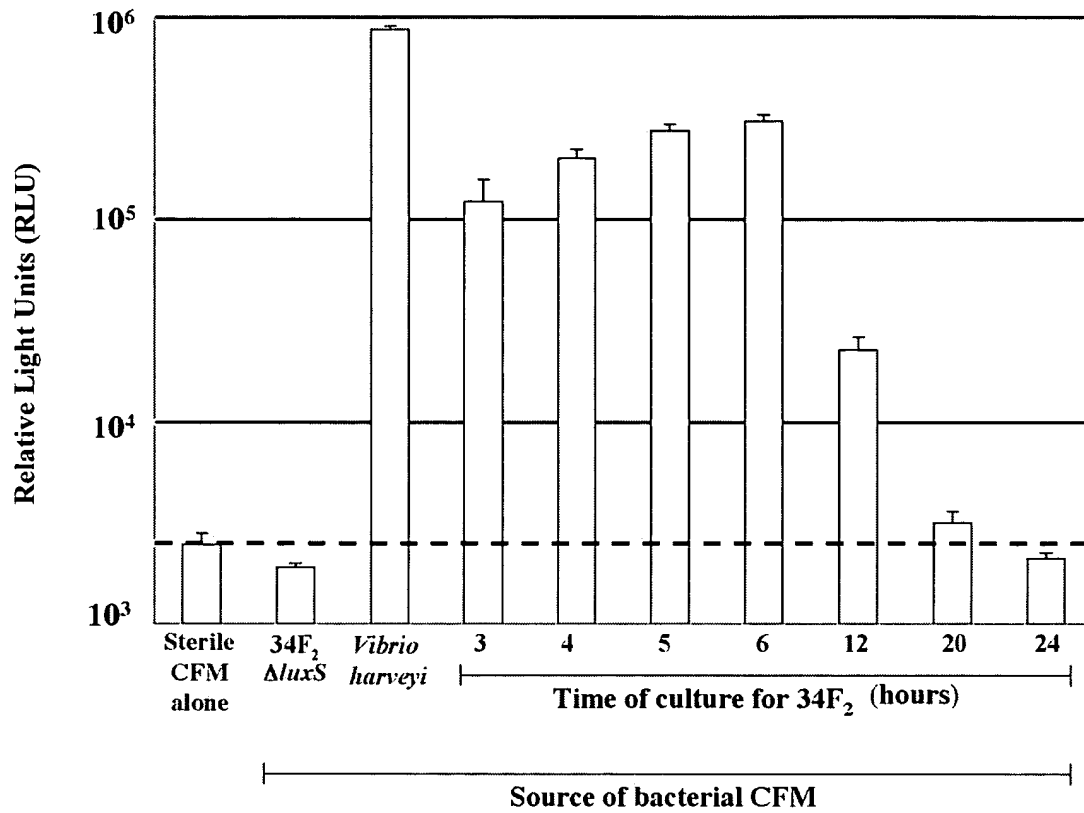


FIGURE 10

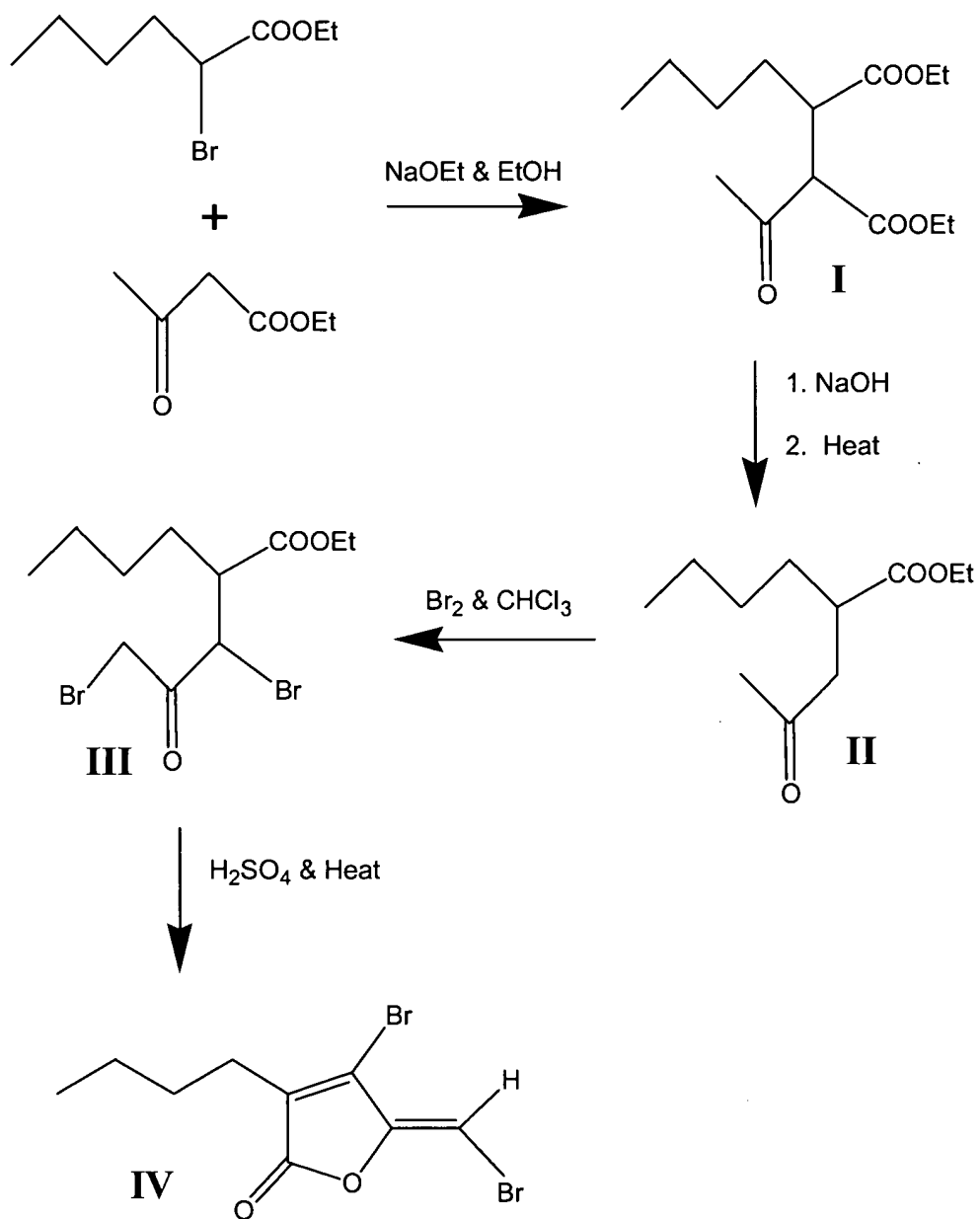


FIGURE 11

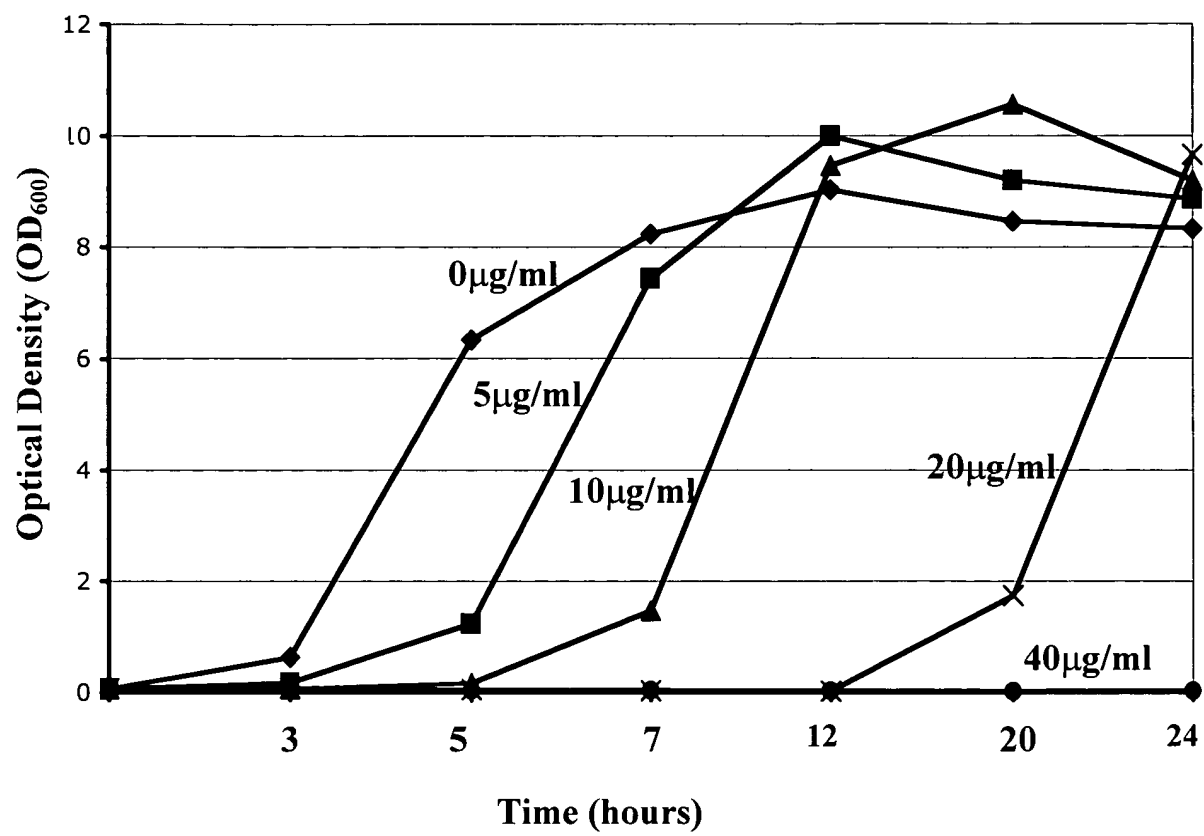


FIGURE 12

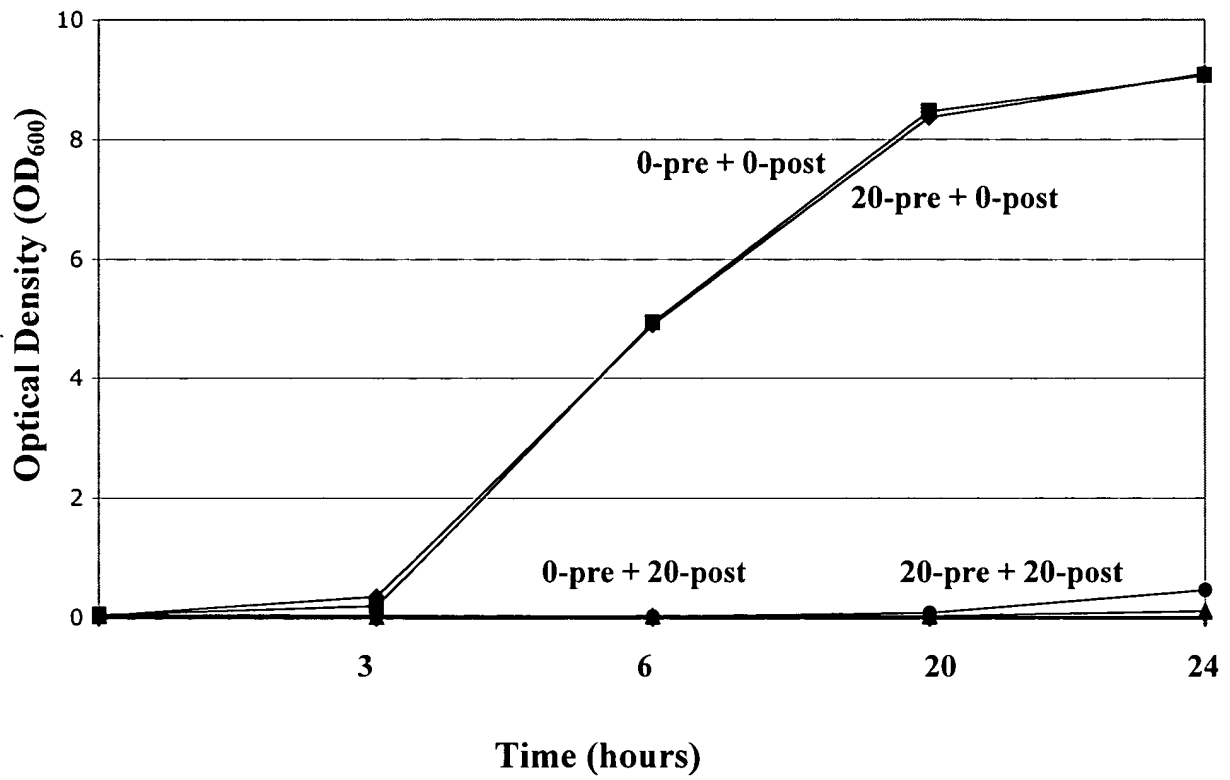


FIGURE 13

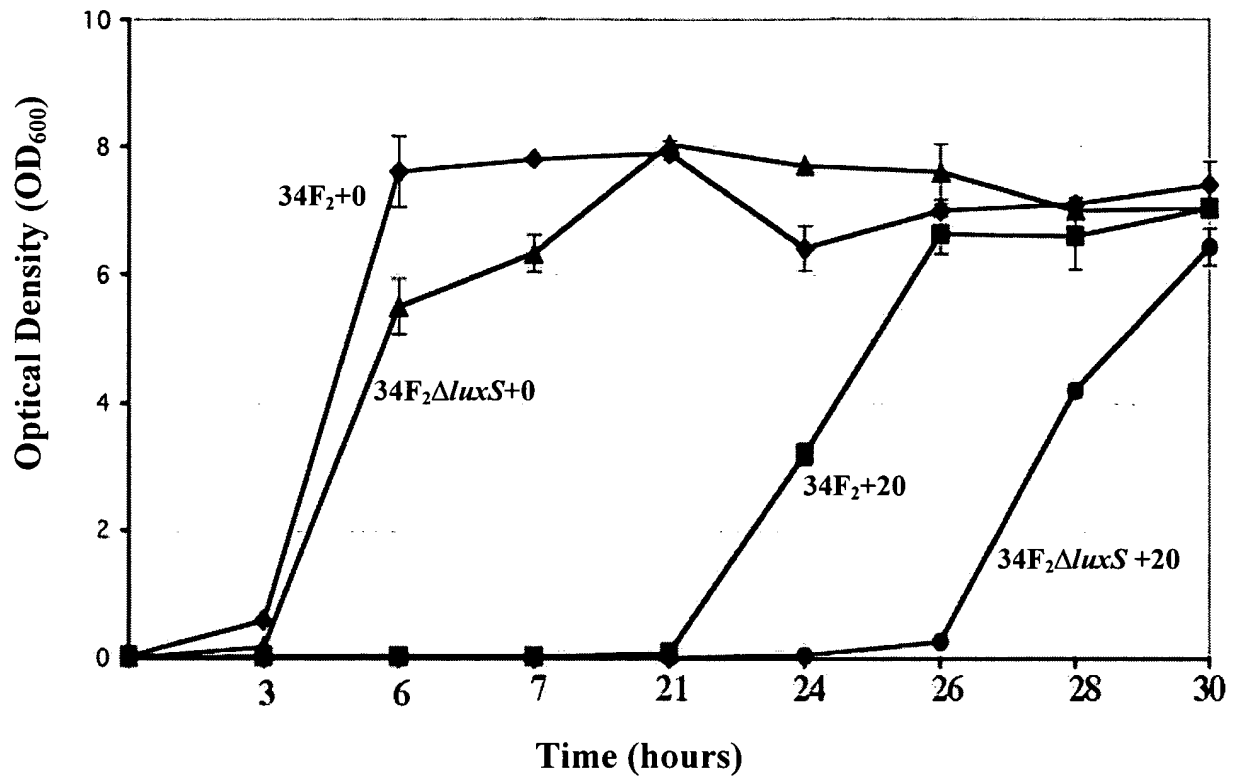


FIGURE 14



1     ATGCCTTCAG TAGAAAGTTT TGAGCTTGAT CATAATGCGG TTGTTGCTCC  
51    ATATGTAAGA CATTGCGGCG TGCATAAAGT GGGAACAGAC GGC GTTGTAA  
101   ATAAATTGA CATTGTTTTT TGCCAGCCAA ATAAACAGGC GATGAAGCCT  
151   GACACCATTC ACACACTCGA GCATTTGCTC GCGTTTACGA TTCGTTCTCA  
201   CGCTGAGAAA TACGATCATT TTGATATCAT TGATATTTCT CCAATGGGCT  
251   GCCAGACAGG CTATTATCTA GTTGTGAGCG GAGAGCCGAC ATCAGCGGAA  
301   ATCGTTGATC TGCTTGAAGA CACAATGAAG GAAGCGGTAG AGATTACAGA  
351   AATACCTGCT GCGAATGAAA AGCAGTGCGG CCAAGCGAAG CTTCATGATC  
401   TGGAAGGCGC TAAACGTTTA ATGCGTTTCT GGCTTTCACA GGATAAAGAA  
451   GAATTGCTAA AAGTATTTGG C

**FIGURE 15**

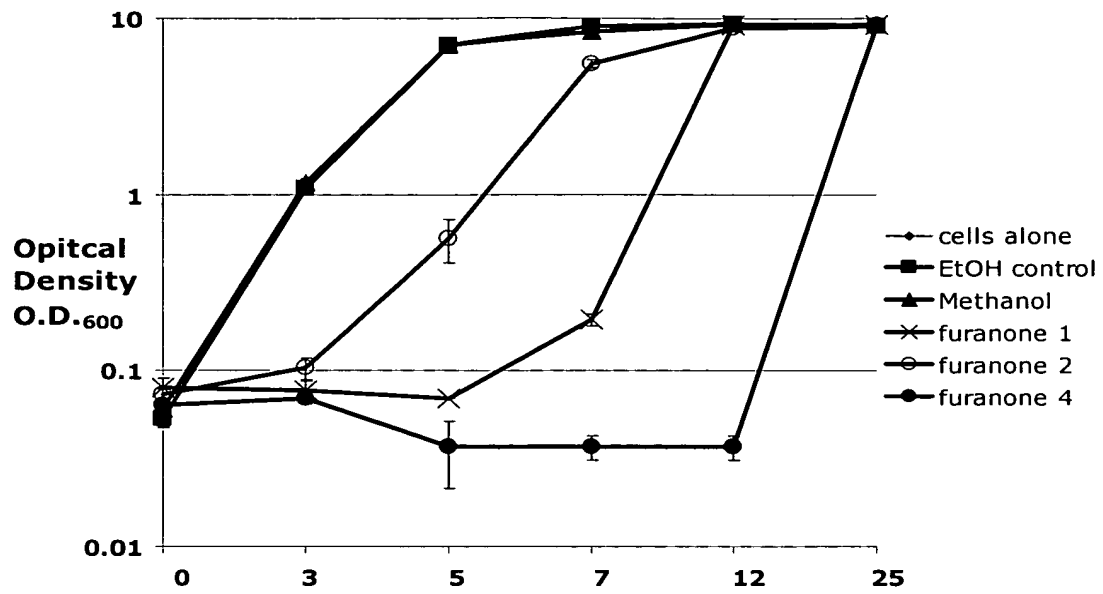


FIGURE 16

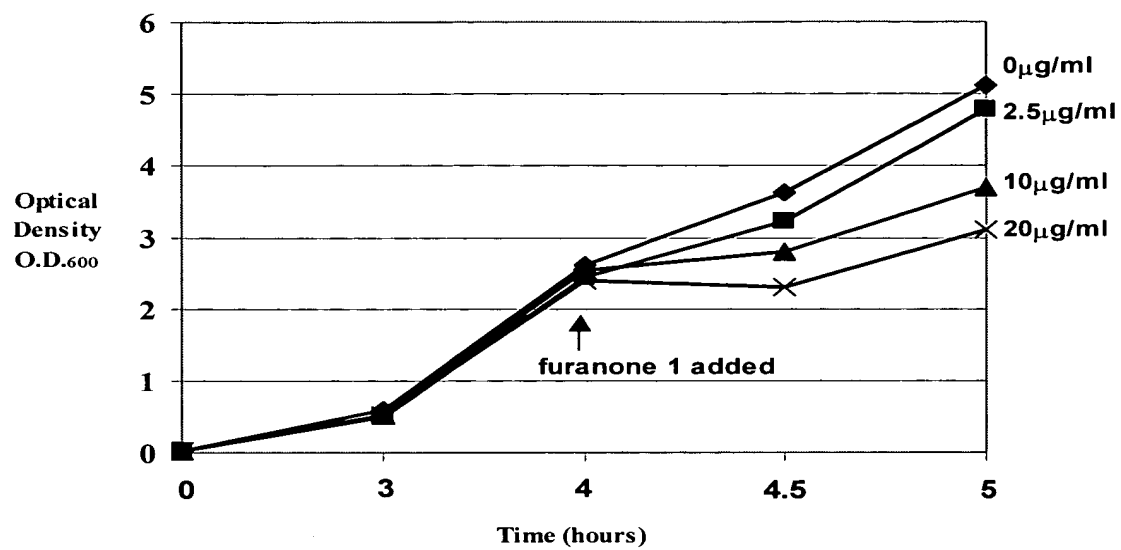


FIGURE 17

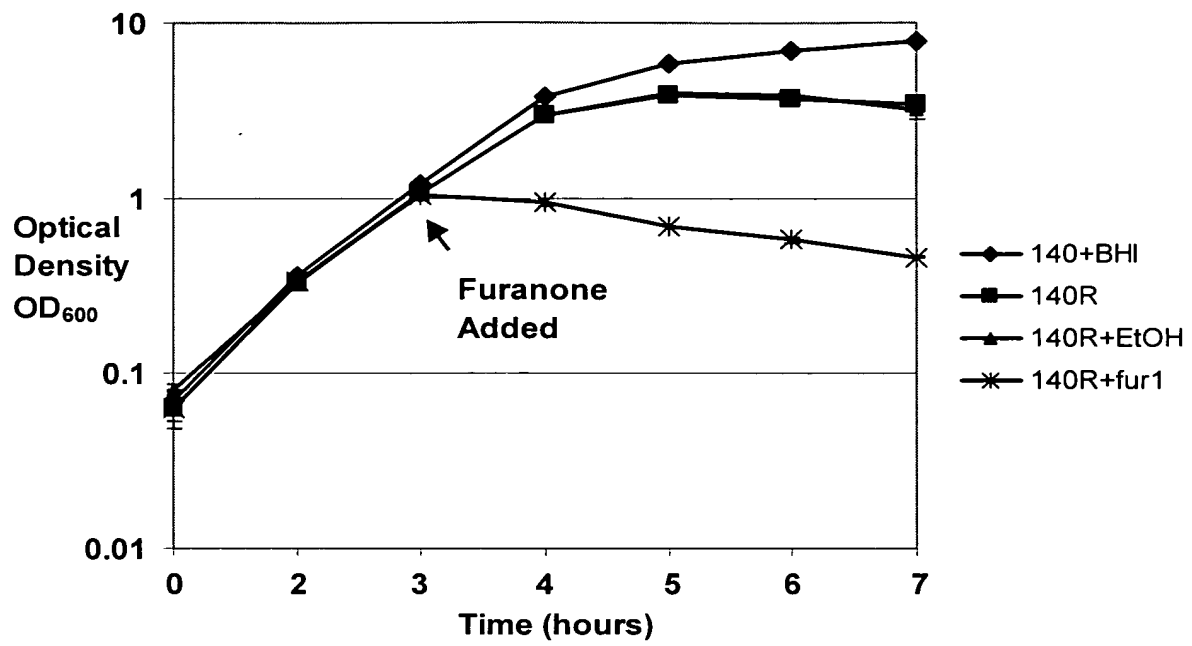


FIGURE 18A

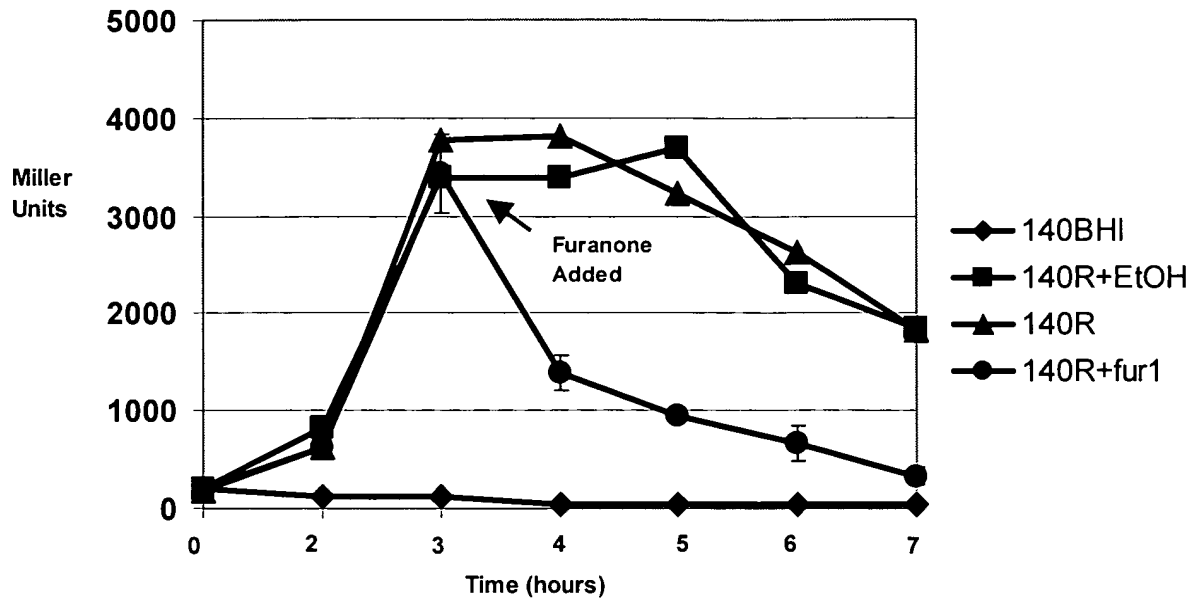


FIGURE 18B

Genes down-regulated		15 minutes post- exposure			30 minutes post- exposure		
<u>Locus</u>	<u>Common Name</u>	<u>10µg/ml</u>	<u>20µg/ml</u>	<u>2.5µg/ml</u>	<u>10µg/ml</u>	<u>20µg/ml</u>	
BA5583	CTP synthase	-2.57	-1.62	-2.7	-4.8	-3.2	
BA0885	S-layer protein Sap	-1.99	-1.64	-3.4	-5.1	-3.8	
BA1295	immune inhibitor A metalloprotease	-2.37	-1.84	-5.7	-3.3	-3.3	
BA1449	peptidase, M23/M37 family	-5.03	-2.92	-2.4	-3.4	-2.4	
BA2918	hypothetical protein	-4.20	-2.95	-2.7	-4.5	-3.0	
	cell division ABC transporter, permease protein						
BA5415	FtsX	-4.60	-3.09	-2.6	-3.1	-2.8	
BA0796	conserved hypothetical protein	-5.58	-3.49	-2.4	-3.6	-3.0	
Genes up-regulated							
BA1639	germination protein gerN	3.64	5.41	2	2.1	2.6	
BA2239	conserved hypothetical protein	6.07	6.08	4.8	4.5	4.4	
BA1232	enoyl-(acyl-carrier-protein) reductase	3.43	2.90	5.6	4.5	4.8	

**FIGURE 19**